

**ABSTRACT OF THE DISCLOSURE**

A method and a system are disclosed for setting up, modifying and tearing down a side-stream communication session in a basic service set (BSS) in a wireless network so that the communication session has a defined Quality of Service (QoS). Regarding setting up a side-stream communication session, a first Path message and a first Resv message (Path/Resv message) of a RSVP protocol is detected at a designated subnet bandwidth manager (DSBM) in a station having a point coordinator (PC). The first Resv message originates from a RSVP agent of a destination non-PC station in the BSS and requests resource reservation for setting up a side-stream session between a source non-PC station and at least one destination non-PC station in the same BSS. The DSBM extracts a QoS parameter set and a classifier from the first Path/Resv message for the session. The DSBM then determines whether to admit the side-stream session to the network based on the QoS parameter set defining the session and a channel status report on a medium access control (MAC) sublayer of the BSS. When the side-stream session is admitted, a QoS management entity (QME) of the PC station sets up a virtual side-stream (VSS) between the source non-PC station and the at least one destination non-PC station for transporting the side-stream session traffic. The DSBM is part of the QME in the PC station.